In the claims:

Claim 4 has been canceled in the previous amendment under PCT article 34. Please amend claims 1, 2, 3, 5-9, and 12 as shown below. Please insert new claims 13-20 as shown below.

- 1. (Currently amended) An isolated protein comprising an amino acid sequence of Seq ID No.2 SEQ ID NO:2 at its N-terminus wherein said protein having the following characteristics
 - (a) Molecular weight: about 47 kDa on SDS-PAGE,
 - (b) Optimal pH: pH 3.5 pH 4.5,
 - (c) Optimal temperature: 45°C 55°C,
 - (d) Substrate specificity: phytate, p-nitrophenyl phosphate, tetrasodium pyrophosphate, ATP or ADP,
 - (e) Michaelis constant of 0.3 0.5 mM utilizing phytate as a substrate,
 - (f) High resistance to protease such as pepsin, trypsin, papain, elastase or pancreatin.pancreatin,
 - (g) Specific activity to phytate: at least 1,500 units/mg.
- 2. (Currently amended) The protein as set forth in claim 1, wherein the protein comprises an amino acid sequence represented by <u>amino acid residues</u> 23-433 <u>amino acids</u> of Seq ID No.7 <u>SEQ ID NO:7</u> or amino acid sequence having over 70% sequence homology with the same.
- 3. (Currently amended) The protein as set forth in claim 1, wherein the protein comprises an amino acid sequence represented by SEQ ID. No 7 SEQ ID NO:7 or an amino acid sequence having over 70% sequence homology with the same.

- 4. (Canceled)
- 5. (Currently amended) The protein as set forth in any one of claims 1 to 3 claim 1, wherein the specific activity of the protein to phytate is at least 3,000 units/mg.
- 6. (Currently amended) A gene coding the protein of any one of claims 1 to 3 and 5 claim 1.
- 7. (Currently amended) The gene as set forth in claim 6, wherein the gene has a base sequence represented by SEQ. ID. No 6 SEQ ID NO:6 or a base sequence having over 70% sequence homology with the same.
- 8. (Currently amended) A microorganism belonging to *Citrobacter* species producing the protein of any one of claims 1 to 3 and 5 claim 1.
- 9. (Currently amended) A feed additive containing the protein of any one of claims 1 to 3 and 5, claim 1 or combination thereof as an effective ingredient.
- 10. (Original) The microorganism as set forth in claim 8, wherein *Citrobacter* species is *Citrobacter braakii*.
- 11. (Original) The microorganism as set forth in claim 10, wherein *Citrobacter braakii* is *Citrobacter braakii* YH-15 strain (Accession No: KCCM 10427).

- 12. (Currently amended) A feed additive containing the microorganism of any one of elaims 8, 10 and 11, claim 8 or combination thereof as an effective ingredient.
- 13. (New) The protein as set forth in claim 2, wherein the specific activity of the protein to phytate is at least 3,000 units/mg.
- 14. (New) The protein as set forth in claim 3, wherein the specific activity of the protein to phytate is at least 3,000 units/mg.
- 15. (New) A gene coding the protein of claim 2.
- 16. (New) A gene coding the protein of claim 3.
- 17. (New) A microorganism belonging to *Citrobacter* species producing the protein of claim 1.
- 18. (New) A microorganism belonging to *Citrobacter* species producing the protein of claim 2.
- 19. (New) A microorganism belonging to *Citrobacter* species producing the protein of claim 3.
- 20. (New) A feed additive containing the protein of claim 2 as an effective ingredient.